



# RETURN systems

durable – customer-specific – space-saving





# Innovation in perfection

**Barbaric**  
Quality  
Made in Austria



As a successful and dynamic company with headquarters and production facilities in Austria, Barbaric is the first point of contact for sophisticated lifting technology.

Our goal is to optimize workflow in the area of edgebanding machines.

Our „RETURN series“ products convince customers with excellent price-performance ratio and an intelligent design.

The in-house development of many components allows us to create ergonomic systems with high profitability and short payback times.

Through years of experience and a special know-how in handling technology we create systems with a special attention to speed, design and durability.

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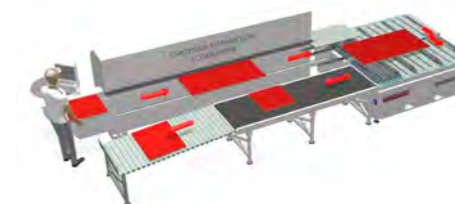


durable – customer-specific – space-saving



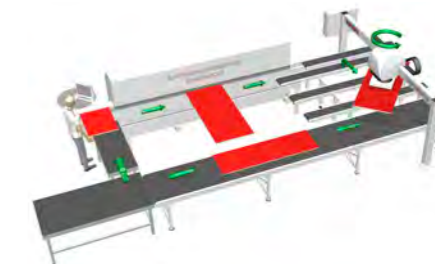
## RETURN 04

Universal, simple return system with maximum benefit



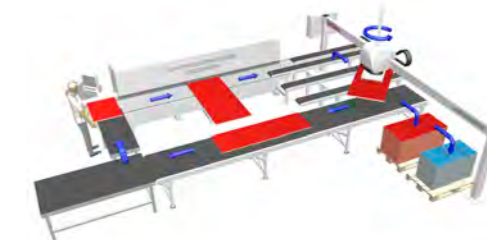
## RETURN 03

Fast and simple return system with turning function



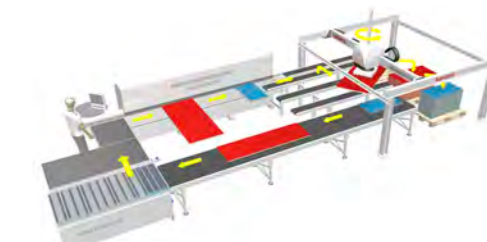
## RETURN 02

Return system with integrated destacking and turning function

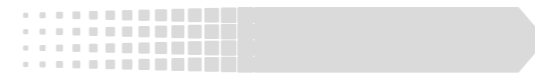


## RETURN 01

Return system with 2 axes allowing a wide range of stacking options







## ■ RETURN 04

Universal, simple return system with maximum benefit

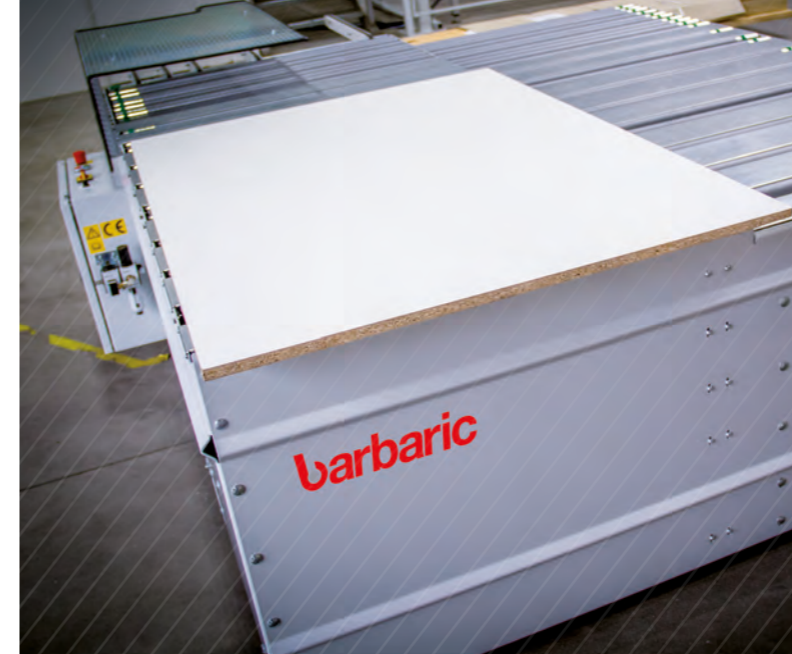
- connectable with edgebanders of all manufacturers
- one-man operation of the edgebander possible
- highest level of ergonomics
- savings in personnel costs
- careful material transport
- installation time approx. 0,5 days
- rotation device for small parts



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### Conveyor

Careful material transport due to plastic-coated special rollers. Special finger conveyors ensure that the parts are safely taken over by the edgebander. The longitudinal measurement of the parts is carried out in the integrated control unit. An electrical connection to the edgebander is not required.

### Technical data

» Working load	max. 60 kg
» Cycle times	up to 14 parts/min.
» Throughput speed	7 - 20 m/min. variable-speed optional up to 30 m/min.

#### Panel sizes

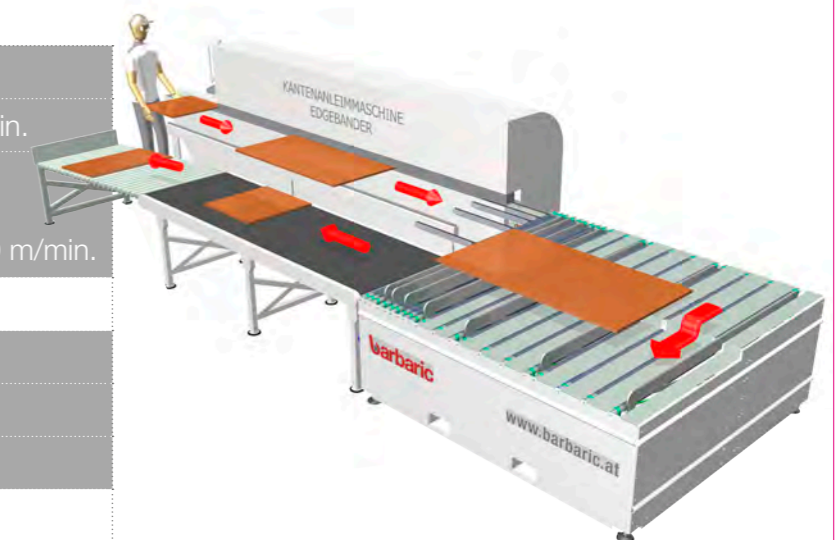
» Length	300 - 2800 mm
» Width	80 - 1300 mm
» Thickness	8 - 60 mm

#### Square parts

» Panel size min.	300 x 120 mm
» Panel size max.	1300 x 1300 mm

### Connection to edgebanding machine

The RETURN 04 is a standalone system that can be independently connected to any edgebander regardless of the brand. The throughput speed can be continuously adjusted to match the edgebander speed. The RETURN 04 is shipped as a complete package including a control cabinet and is ready for operation immediately after installation.



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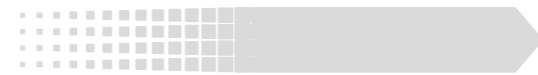
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Upgrade with fast handling device  
uniWood B3 90



## ■ RETURN 03

Fast and simple return system with turning function

- connectable with edgebanders of all manufacturers
- 90° / 180° turning function
- one-man operation of the edgebander possible
- highest level of ergonomics
- savings in personnel costs
- careful material transport
- installation time approx. 2 days



## Modular and customer-specific production

Through our intelligent and modular product design we can assemble an individual and ideal solution for fast handling at the edgebander. Installation and start-up is quick and easy as all components come preassembled. In case of machine replacement or movement adjustments to our system are simple as well: only the portal construction is bolted to the ground, the other components are set up to be freestanding.



## Manipulator

- Automatic adjustment of the machine speed to different part sizes
- Measurement of the parts during takeover from the edgebander
- High speed due to independent positioning of the manipulator in the center of the parts
- Standard speeds of 10 - 20 m / min
- Optional transfer of the throughput speed
- Machine visualization on the touchscreen display



## Networking and communication

Optionally, part information and details can be imported from an ERP system or directly be read before the task with a barcode scanner.

The control system offers a wide range of communication options to connect to the edgebander.



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ROTATING  
90°/180°

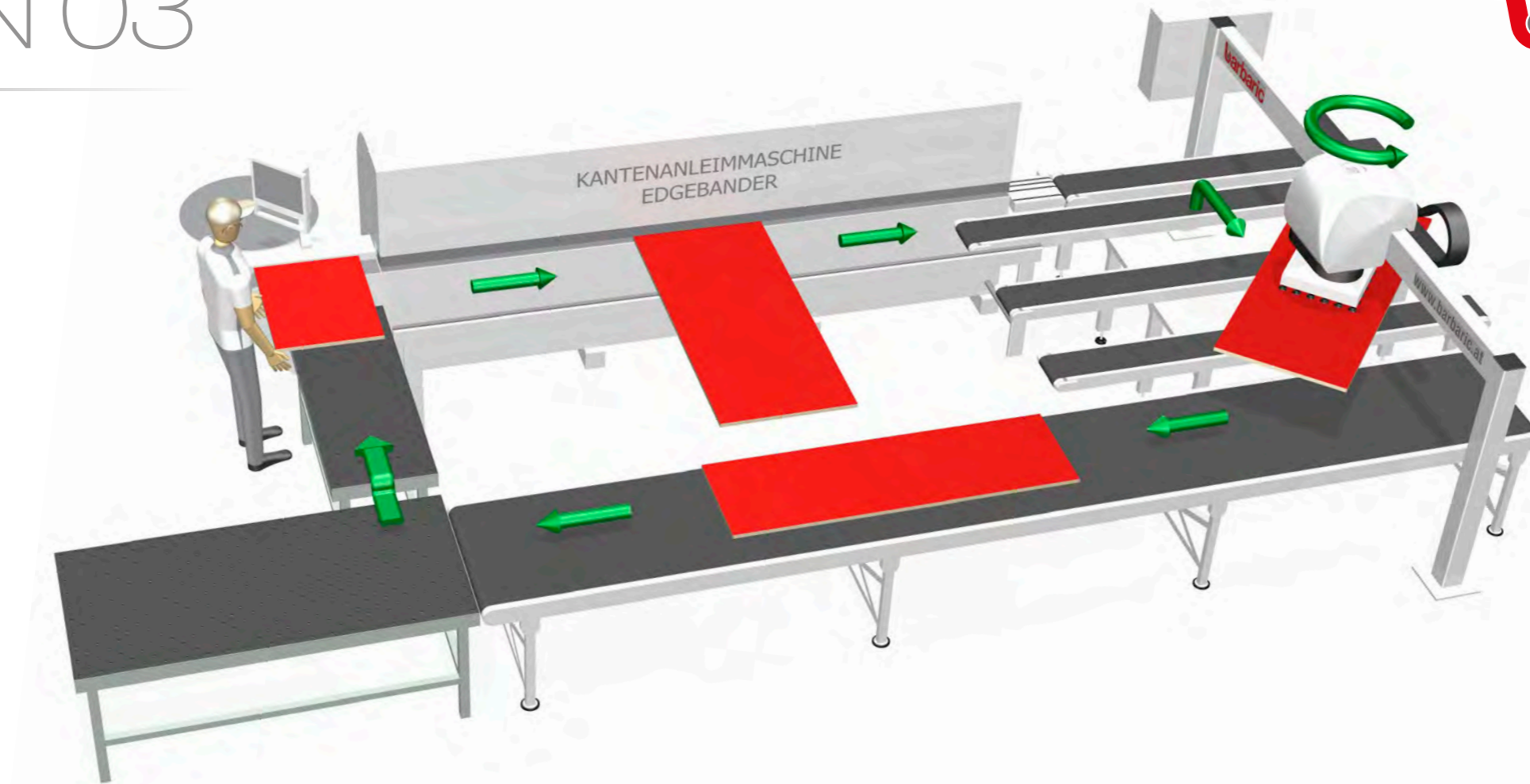
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# RETURN 03



Technical data

## Function and operation

- visualization on a 17" touch display
- intuitive user interface and modern layout
- secure part return
- continuous mode for oversize
- rotation unit 90° / 180°
- part measurement
- remote maintenance tool preinstalled
- signal exchange with edgebander

## Your benefits at a glance

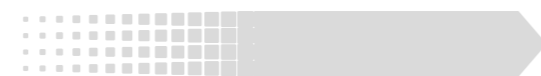
- gentle manipulation, through vacuum suction technology, no more material damages
- flexible in the part size
- adaptation to the space conditions
- reduced personnel costs
- simplification and alleviation of production processes
- higher machine utilization
- highest flexibility in the production process
- payback times of less than one year
- fully automated handling of parts

	STANDARD	OPTIONAL
» Working load	60 kg	100 kg
» Throughput speed edgebander	10 - 20 m/min.	30 m/min.
» Panel size	min. 80 x 300 mm max. 2400 x 2400 mm	max. 2800 x 1300 mm larger on request
» Panel thickness	6 - 70 mm	
» Cycle times	up to 12 parts/min.	continuous mode for oversize
» Stroke movement	electric motor	
» Rotation movement	electric motor, 3 sec. for 90°	
» Operating pressure	5 - 6 bar	
» Voltage	400 V, 50 Hz	
» Total output	max. 3,5 kW	
» Air consumption	420 NI/min.	

Optional extension tables on the last pages.







## ■ RETURN 02

Return system with integrated destacking and turning function

- connectable to edgebanders of all manufacturers
- 90° / 180° turning function
- destacking function
- one-man operation of the edgebander possible
- highest level of ergonomics
- savings in personnel costs
- careful material transport
- installation time approx. 2 days



### Destacking function

With a RETURN 02 system there can be up to 12 stacking spots in a row. Our special software also allows for multiple parts in one layer of a stack to maximize stacking efficiency. Adjustment of the stacking configuration including the addition and removal of loading and unloading stacks can easily be done by the machine operator.



### Control and operation

Various machine configurations can be realized with our standard software.

- selection of all motion functions
- integrated service tool for remote maintenance
- simple, touch-enabled surface
- Windows-based
- extensive error analysis, with optional camera tool
- continuous mode for oversize



### Dual mode

Our machine also features „dual mode“ in which the machine picks up two parts at simultaneously to maximize throughput. The operator decides if the parts should be stacked or returned.



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ROTATING  
90°/180°



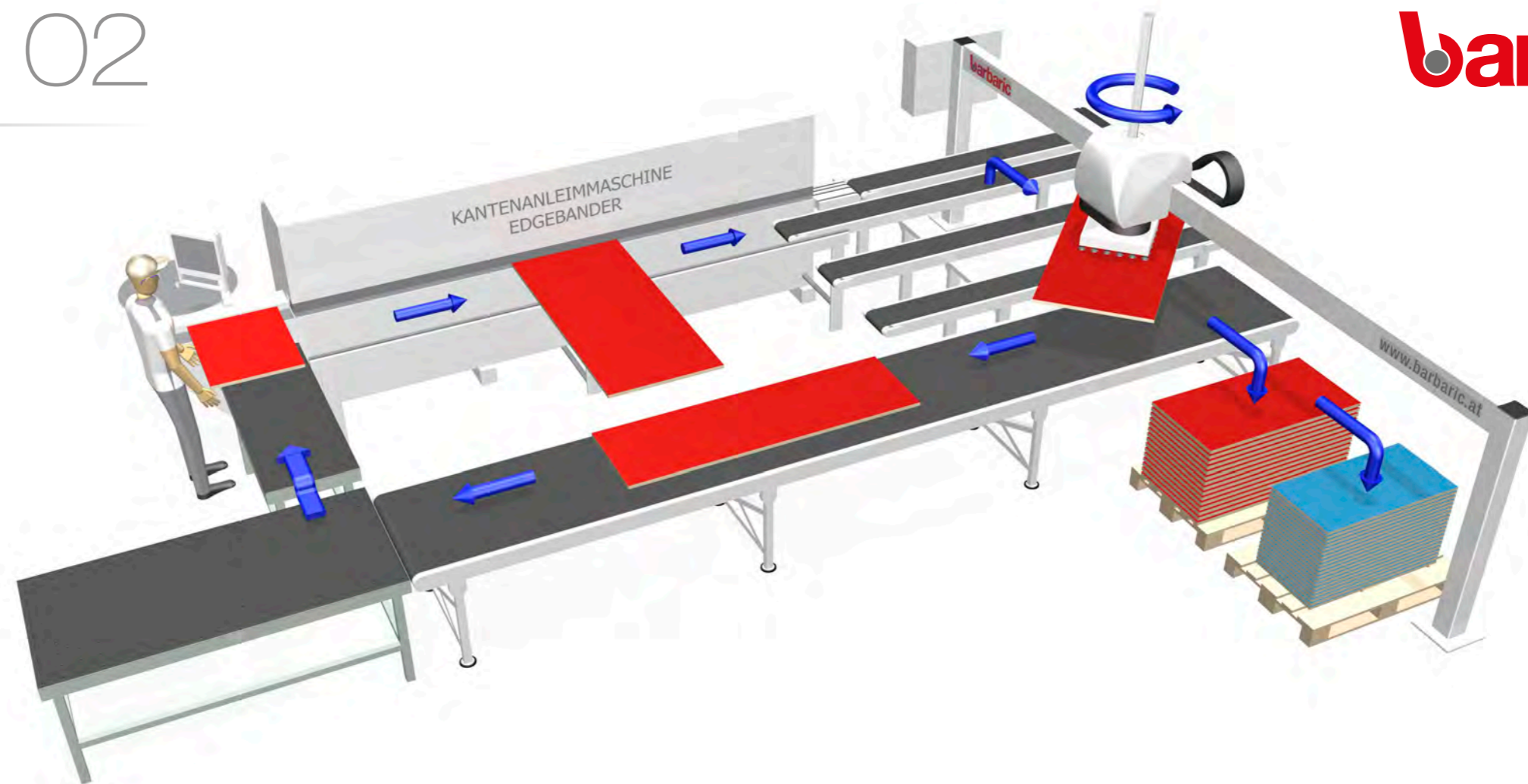
DESTACKING

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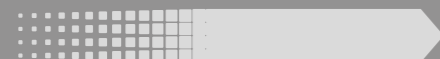


Technical data

## Function and operation

Highly efficient production facilities require modern control systems.

- visualization on a 17" touch display
- intuitive user interface and modern layout
- secure part return
- Continuous mode for oversize
- rotation unit 90° / 180°
- part measurement
- destacking function incl. layer formation
- remote maintenance tool preinstalled
- signal exchange with edgebander



## Your benefits at a glance

- gentle manipulation, through vacuum suction technology, no more material damages
- flexible in the part size
- adaptation to the space conditions
- reduced personnel costs
- simplification and alleviation of production processes
- higher machine utilization
- connectable to edgebanders of all manufacturers
- retrofitting with existing edgebanders possible
- highest flexibility in the production process
- payback times of less than one year
- fully automated handling of parts

	STANDARD	OPTIONAL
» Working load	60 kg	100 kg
» Throughput speed edgebander	10 - 20 m/min.	30 m/min.
» Panel size	min. 80 x 300 mm max. 2400 x 2400 mm	max. 2800 x 1300 mm larger on request
» Panel thickness	5 - 70 mm	
» Cycle times	up to 12 parts/min.	in dual mode 20 parts/min.
» Stroke movement	electric motor	
» Rotation movement	electric motor, 3 sec. for 90°	
» Stack height over ground	800 mm	1200 mm
» Operating pressure	5 - 6 bar	
» Voltage	400 V, 50 Hz	
» Total output	4 kW	
» Air consumption	420 NI/min.	

Optional extension tables on the last pages.



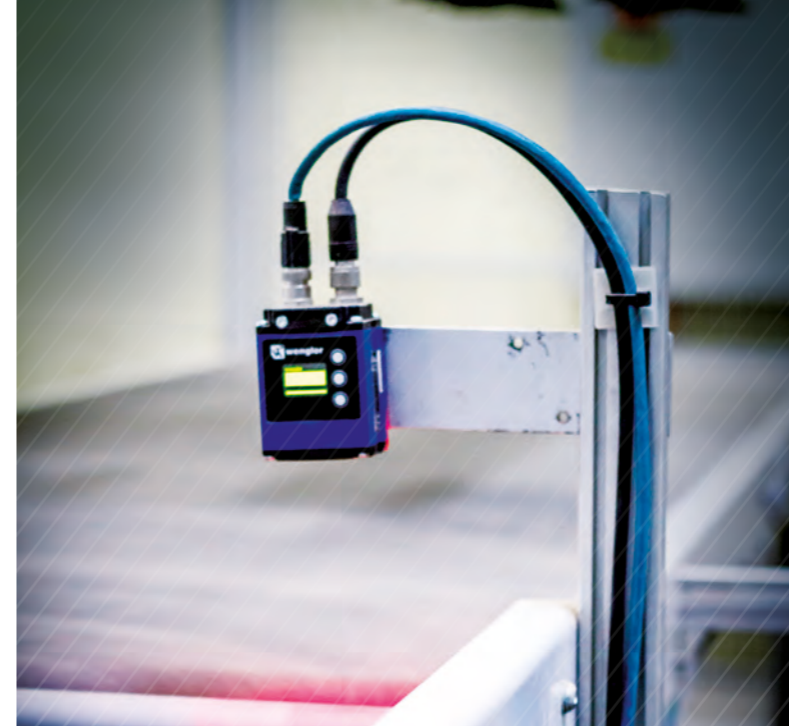


## ■ RETURN 01

Return system with 2 axes allowing a wide range of stacking options

By integrating the RETURN 01 into production lines, material flow and machine utilization are optimized. Versatile, customer-specific solutions can be realized.

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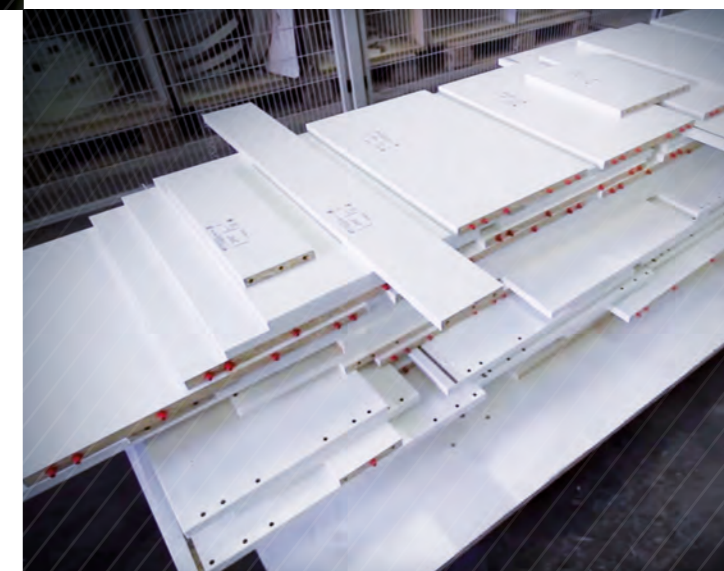
## Stack editor

In connection with an ERP system, the individual stacking layout can be defined by a wide range of criteria, such as: customers, truck tours or internal logistic requirements. Our special stack editor tool also allows the placement of multiple parts in one layer of the stack. Even after initial set-up the machine operator can easily make changes to the existing stacking layout if needed.



## Production cycle

The combination of part registration and data connection allows an optimal communication to all machines in the production line.



## Intelligent and modular design

Through the customer-specific arrangement of our modular parts we create customer-specific solutions for optimal material transport with short production and installation times.



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ROTATING  
90°/180°



DESTACKING

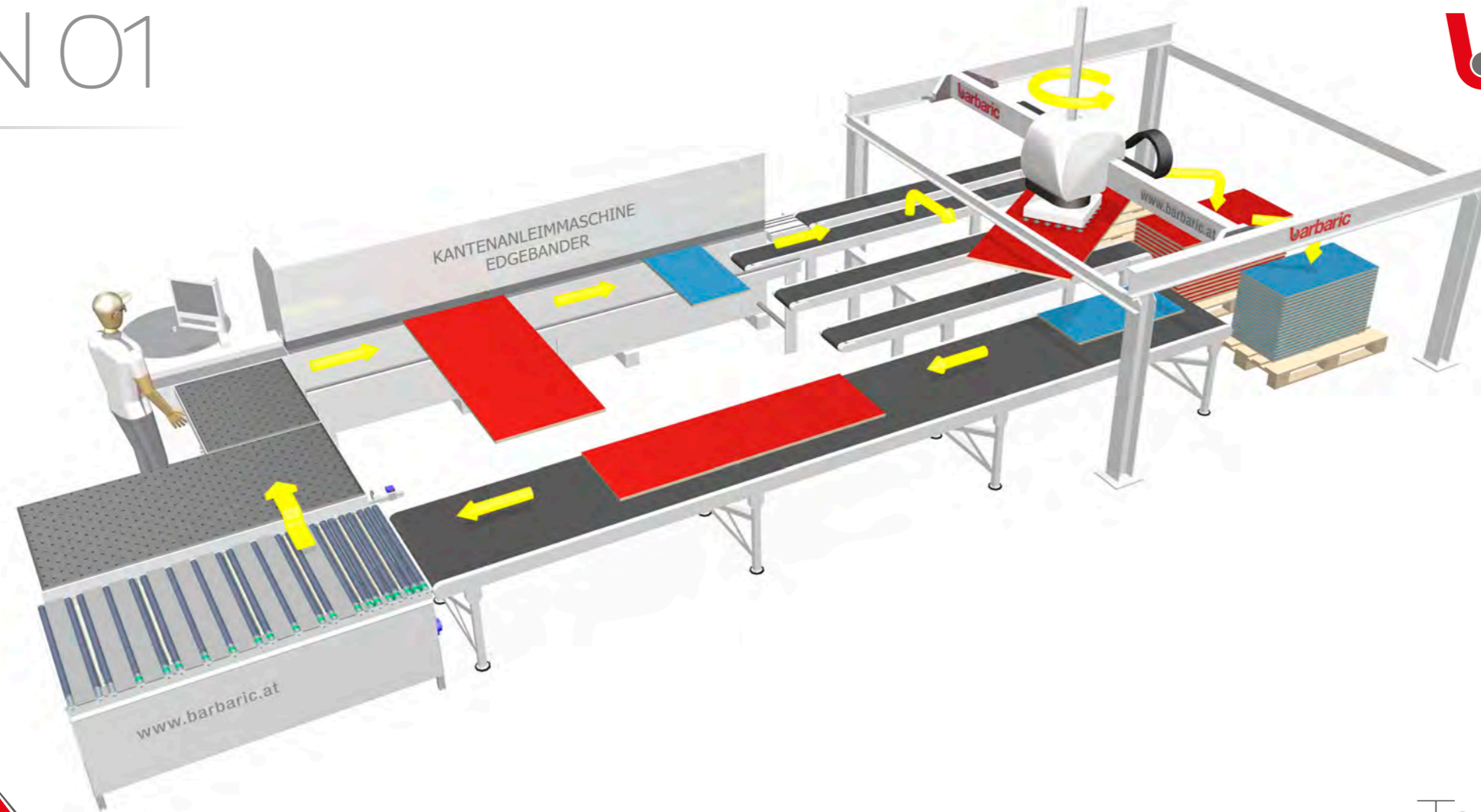
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# RETURN 01

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Technical data

## Function and operation

Highly efficient production facilities require modern control systems.

- visualization on a 17" touch display
- intuitive user interface and modern layout
- secure part return
- continuous mode for oversize
- rotation unit 90° / 180°
- part measurement
- destacking function incl. layer formation
- remote maintenance tool preinstalled
- signal exchange with edgebander
- aluminium lightweight construction

## Your benefits at a glance

- gentle manipulation, through vacuum suction technology, no more material damages
- flexible in the part size
- adaptation to the space conditions
- reduced personnel costs
- simplification and alleviation of production processes
- higher machine utilization
- connectable to edgebanders of all manufacturers
- retrofitting with existing edgebanders possible
- highest flexibility in the production process
- very short payback times
- fully automated handling of parts
- self-programmable and flexibly expandable stacking area

	STANDARD	OPTIONAL
» Working load	60 kg	100 kg
» Throughput speed edgebander	10 - 20 m/min.	30 m/min.
» Panel size	min. 80 x 300 mm max. 3000 x 1500 mm	larger on request
» Panel thickness	6 - 70 mm	
» Cycle times	up to 12 parts/min.	in dual mode 20 parts/min.
» Stroke movement	electric motor	
» Rotation movement	electric motor, 3 sec. for 90°	
» Stack height over ground	800 mm	1200 mm
» Operating pressure	5 - 6 bar	
» Voltage	400 V, 50 Hz	
» Total output	5 kW	
» Air consumption	420 NI/min.	

Optional extension tables on the last pages.



# Optional extension tables

(available for RETURN 03, RETURN 02 & RETURN 01)

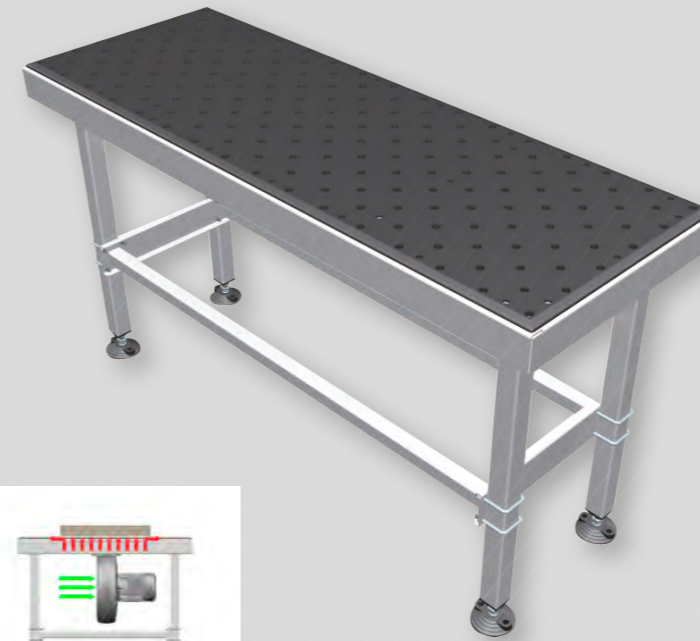
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## Inclined running tracks

Optionally, we can install a roller track with an incline after the return conveyor belt. Through gravity the parts slowly roll to the end of the track where they are manually removed by the operator.

Length: 2000 mm, optional 2500 mm  
Width: 800 mm



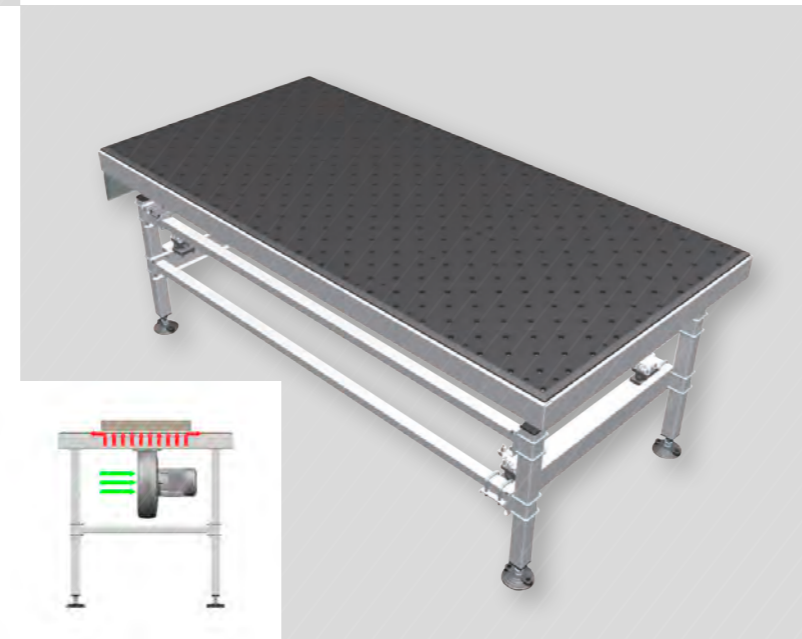
## Air table at the edgebander

In combination with the conveyor system we offer a wide variety of air cushion tables with an integrated blowing unit for easy panel manipulation.

## Lifting table

At the end of the conveyor belt we can optionally install a table with a pneumatic lifting unit. The table features an air cushion surface where parts can be manipulated effortlessly. The lifting unit returns the parts to the original height of the edgebander part entry point for extra smooth and fast operation.

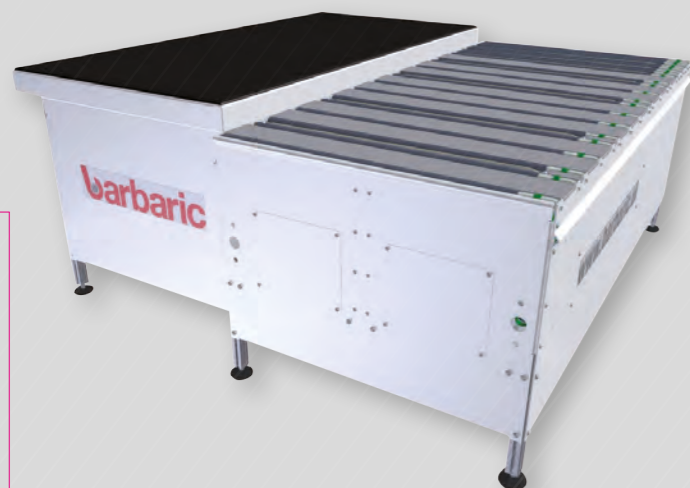
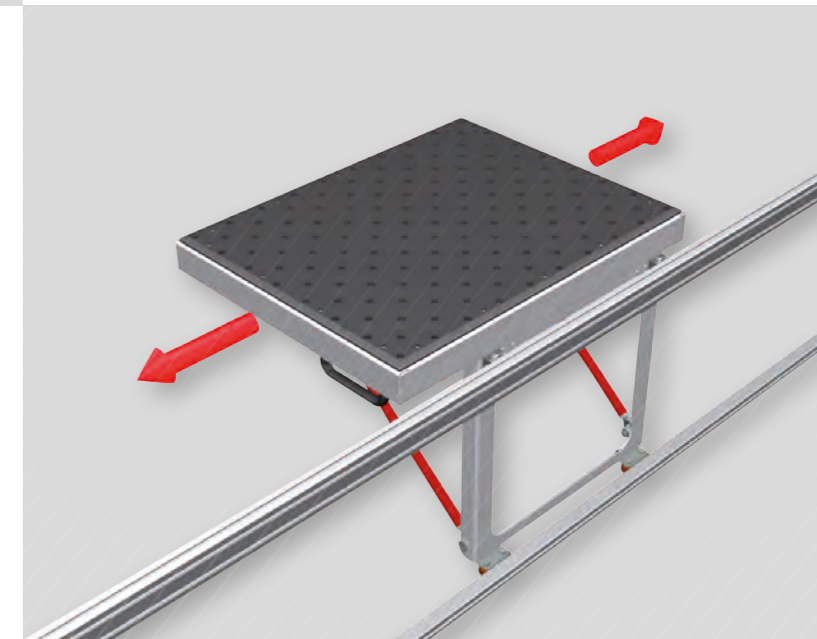
Length: 2000 mm, optional 2500 mm  
Width: 1000 mm



## Sliding table

At the exit station a sliding air cushion table is installed. This table allows a fast and easy insertion of large parts into the edgebander.

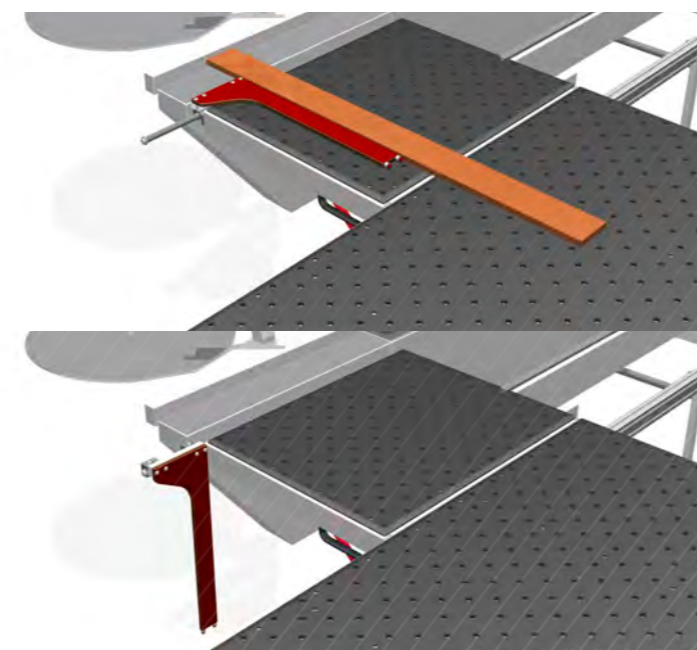
Length: 980 mm  
Width: 780 mm  
Displacement area: 800 mm



## Conveyor

A lifting conveyor is placed at the end of the return conveyor belt. From there the parts are taken over to a roller track and automatically transported to the point of part entry at the edge bander. The lifting unit returns parts to the edgebander height allowing the machine operator to effortlessly manipulate even large and heavy parts.

Length: 2000 mm | Width: 2000 mm  
Stroke: 80 mm



## Feeding unit for narrow parts

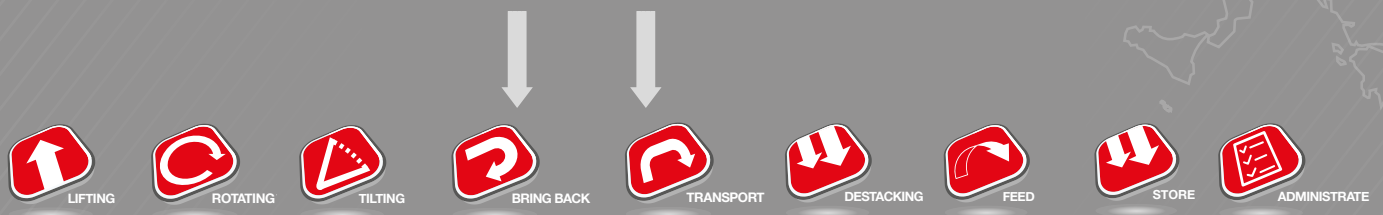
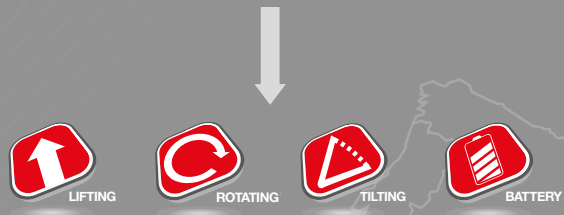
Positioning unit for the insertion of narrow, long parts into the edgebander. This ruler is attached to the slidable table.

When not in use, the ruler can be swivelled downwards.



# The product world of Barbaric

Modern vacuum handling technology



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